Interagency Report Control No 01 0180-DOA AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 1 0-F-0002

CUSTOMER NO. 439

FORM APPROVED OMB NO 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA. include Zip Code)

WALTER REED ARMY INSTITUTE OF RESEARCH DIV. OF VETERINARY MEDICINE **BUILDING 511** WASHINGTON, DC 20307

(301) 319-9897

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional

FACILITY LOCATIONS(sites)

See Attached Listing

Experimental Therapeutics, Neuroscience, Biochemistry

Division of Veterinary Medicine

Military Casualty Research, Infectious Diseases, Retrovirology

Communicable Diseases & Immunology, Combat Casualty Care

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yel used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving eccompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgasic, or franquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. OF ANIMALS (Cols. C + D+E)
4. Dogs	0	0	31	0	31
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	10	53	304	367
7. Hamsters	0	27	134	0	161
8. Rabbits	0	122	51	1	174
9. Non-Human Primates	92	327	228	8	563
10. Sheep	0	0	00	0	0
11. Pigs	1	66	212	_46	324
12. Other Farm Animals					
13. OtherAnimals					
ASSURANCE STATEMENTS					

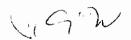
¹⁾ Professionally acceptable standards governing the care, treatment, and use of animats, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL				
(Chief Executive Officer or Legally Responsible Institutional official)				
I certify that the above iS true, correct, and complete (7 U.S.C. Section 2143)				
SIGNATURE OF CE.O. OR INSTITUTIONAL OFFICIAL		NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED	
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APHIS FORM 7023 (AUG 91)

(Replaces VS FORM 18-23 (Oct 88), which is obsolete

PART 1 - HEADQUARTERS



²⁾ Each principal investigator has considered alternatives to painful procedures.

³⁾ This faculty is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

⁴⁾ The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

This form is intended as an aid to completing the Column E explanation. It is not an official form and its use is voluntary. Names, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

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1. Registration Number:	10-F-0002		
2. Number 1		of animals used in this study.	
3. Species (common nam	e) Rabbit	of animals used in the study.	
4. Explain the procedure	producing pain and/or d	istress.	
induce thrombocytopenia as: significant bleeding du events—persistent anorex	in rabbits, may weaken to the to thrombocytopenia (tia, significant injection s	toxic regimen, or due to antibodies used to the animal and cause potential symptoms, such (hematoma); nonspecific drug-related adverse site reactions, significant decreased ambulation , and abnormal vocalization.	
 Provide scientific justi used to determine that mandated testing, see 	pain and/or distress reli	r distress could not be relieved. State methods or means ef would interfere with test results. (For Federally	
Any rabbits showing any combination of these signs will be euthanized with euthanasia solution. All other procedure will occur under general anesthesia in these non-survival experiments, so no pain is anticipated. The potential painful procedures, i.e. the cannulation and laparotomy procedures, described in this protocol are essential for creating the conditions necessary to study the stability and efficacy of Multi-function Blood Substitution in vivo. However, every effort will be made to ensure maximum comfort of the animals under anesthesia. There will be a conscious effort by the P.I. and his staff to provide additional consideration for comfort and well being of the animals as is consistent with the scientific integrity of the study. The attending veterinarian was consulted regarding appropriate and humane use of anesthesia to alleviate the pain associated with the surgical procedures in this protocol. Animals that appear distressed or moribund will be euthanized according to section V.D.7 of this protocol.			
6. What, if any, federal r Regulations (CFR) titl	egulations require this pole number and the specific	rocedure? Cite the agency, the code of Federal ic section number (e.g., APHIS, 9 CFR 113.102):	
Agency	CFR	·	

1. Registration Number:	10-F-0002	
2. Number	272	of animals used in this study.
3. Species (common nam	ne) Guinea Pig	of animals used in the study.
4. Explain the procedure	producing pain and/or di	stress.
Shigella vaccine candidate eyes, and then the severity		cing Shigella in the conjuctivae of guinea pigs' ored.
5. Provide scientific just used to determine that mandated testing, see	t pain and/or distress relie	distress could not be relieved. State methods or means of would interfere with test results. (For Federally
requires an accurate evaluation of entire the use of analgesics, particular invalidate the results of expossible eye infection. U	uation of the immune respond to the immune respond to the immune that the immune that are a second to the immune respond to the immune res	fficacy of vaccine candidates directed against Shigella conse raised by the administration of these vaccines. Stics, result in immunosuppression, which would ne responses as well as increasing the severity of the anti-inflammatory (e.g. aspirin) would also invalidate mation of epithelial cells by bacterial invasion.
6. What, if any, federal a Regulations (CFR) tit	regulations require this pr tle number and the specifi	ocedure? Cite the agency, the code of Federal c section number (e.g., APHIS, 9 CFR 113.102):
Agency	CFR	

		•
Registration Number: 10-F	-0002	
2. Number	8	_of animals used in this study.
3. Species (common name)	Rhesus	of animals used in the study.
4. Explain the procedure prod	lucing pain and/or distress.	
primate model that is indistil conjunctival or nasal routes within the mucosa and subs mucosa-associated lymphoi organisms via the reticuloer	nguishable from the aeros of infection at identical do equently become localize id tissues. These cells or adothelial (RE) system to phagolysosomes of phag	an establish acute brucellosis in a non-human sol route of infection when given by either oses. We expect the organisms to be internalized ed within resident phagocytic cells residing in the ran unidentified cell population will transport the target organs. It is expected that the organisms will gocytic cells and establish acute brucellosis identical
		could not be relieved. State methods or means used to re with test results. (For Federally mandated testing, see Item 6
unclear whether such distrest Previous experience with rhe clinical signs (recumbency a stimuli, forced abdominal re- animals may recover spontal evidence for histamine involonal Neuroleptanalgesics can call al., 1989). Butorphanol tartrotte, blood pressure, and call	ss can be relieved with kresus monkeys given high and weakness, progressive spirations or dyspnea) hau neously. Narcotic analge vement in the simian Bruuse respiratory depressionate has respiratory depresionate output (Lumb and J	nt Brucella in animals it will cause some distress. It is nown treatments that may affect experimental results. In respiratory doses of virulent Brucella indicates when we state of depression, inappropriate responses to external ave been manifested, illness is evident, however, the esics cause histamine release (Soma 1983). There is incella responses (Scheuber et al., 1985). On, bradycardia, and poor muscle relaxation (Swainsbury essant activity and causes significant decreases in heart Jones, 1984). Because of the potential for analgesics to it is unwise to use them in this protocol.
What, if any, federal regula title number and the specifi	itions require this procedure ic section number (e.g., API	e? Cite the agency, the code of Federal Regulations (CFR) HIS, 9 CFR 113.102):
Agency	CFR	

1. Registration Number:	10-F-0002	
2. Number	32	of animals used in this study.
3. Species (common name	e) Guinea Pig	of animals used in the study.
4. Explain the procedure	producing pain and/or	distress.
	-	ochronic low-dose Soman, Sarin, or VX. ore, during, and following dosing.
collection and analysis of l pigs will be anesthetized to	EEG, EKG, body tempo achieve deep surgical . Having achieved dee	epared using biotelemetry techniques for the erature, and locomotor acitivity data. Guinea anesthesia using a solution containing a mixture p surgical anesthesia, either the surgical
	pain and/or distress reli	or distress could not be relieved. State methods or means lef would interfere with test results. (For Federally
accomplished by distress.	The relief of the pre-se	e seizures. The pre- and post-seizure periods may be eizure period of distress is difficult to predict and re are to determine the primary effects of nerve agent
6. What, if any, federal re Regulations (CFR) title	gulations require this p number and the specif	procedure? Cite the agency, the code of Federal fic section number (e.g., APHIS, 9 CFR 113.102):
Agency	CFR	

1. Regis	tration Number: 10-	F-0002	
2. Numb	er	46	of animals used in this study.
3. Specie	es (common name)	Swine	of animals used in the study.
4. Expla	in the procedure pr	oducing pain and/or di	stress.
SE. Ade vomiting	etermination is ma	ide of the value of va	te to Staph endotoxins (SE). Piglets are dosed orally with prious potential drugs for prophylaxis against emesis aluation of how late the drugs can be administered after SE- ponse is determined.
	-		listress could not be relieved. State methods or means used to determine with test results. (For Federally mandated testing, see Item 6 below)
necessa impact tl compror experier that reas	rily cause pain to he physiological panising analysis of the relief, but shou	these animals. Posi arameters, exacerba collected data. If the uld they not experien	E-challenge with the LD50 test in the positive control animals will tive controls are required to validate results. Analgesics would alting the lethal shock or emesis induced by the SE and experimental drugs proved their utility, the animals should be relief then that indicates failure of the drug and is necessary for will be under constant veterinary care and will not be subject to any
			ocedure? Cite the agency, the code of Federal Regulations (CFR) e.g., APHIS, 9 CFR 113.102):
Agen	су	CFR	